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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/988,896	11/19/2001	Andy P. Annadurai	021067-000200US	9182
20350	7590 01/31/2006		EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			JONES, PRENELL P	
TWO EMBA EIGHTH FL	ARCADERO CENTER OOR		ART UNIT	PAPER NUMBER
SAN FRAN	CISCO, CA 94111-3834		2668	
			DATE MAILED: 01/31/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/988,896	,896 ANNADURAI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Prenell P. Jones	2668					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet v	vith the correspondence ac	idress				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO a, cause the application to become A	ICATION. The reply be timely filed ONTHS from the mailing date of this of the capabor of the c					
Status							
1)⊠ Responsive to communication(s) filed on 21 N	lovember 2005.						
	action is non-final.						
,							
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-11 and 13-19</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) <u>1-6 and 13-19</u> is/are allowed.							
6) Claim(s) 7 and 9 is/are rejected.							
7) Claim(s) 8,10 and 11 is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers	·						
9) The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) acc		by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct			FR 1.121(d).				
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in a rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this National	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) (s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Other:	Informal Patent Application (PTC	O-152)				

Application/Control Number: 09/988,896

Art Unit: 2668

Response to Arguments

1. Applicant's arguments with respect to claims 1-11 and 13-19 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US PAT. 5,719,862) in view of Henderson et al (US PAT 5,022,056).

Regarding claim 7, Lee packet-based de-skewing and clock synchronization for a network wherein multiple data-bits are communicated over a data bus to a framer (Abstract,

Application/Control Number: 09/988,896 Page 3

Art Unit: 2668

Figs. 3, 5 & 10, MAC devices manufactured in a standard IC package, architecture includes a MAC module includes framer communicating with de-skew via switch, inputs are selected, skew measurements is determined by phase comparison, inputs selected with respect to desired delay (col. 2, line 55-67, col. 4, line 55-65, col. 8, line 14-67). Lee is silent on inputs for receiving data wherein a input is selected if there is no skew, selecting an input if there is a late skew and selecting an input if there is a early skew. In a communication system that synchronizes a clock with the use of comparing delay clock signals, Henderson discloses synchronizing clocks, whereby delayed signals are compared in order to select appropriate input for data, determination of which delay clock signal is closest in phase to receiver as to provide coherent clocks, whereby input is selected if there is no skew, selecting an input if there is a late skew and selecting an input if there is a early skew (Abstract, Fig. 1, col. 1, line 59 thru col. 2, line 23, an input is recognized when no delay/skew data is transmitted, an input is selected for wherein the data speed is moderately slow/late data, and an input is selected for when the speeds are significantly higher/early data (col. 3, line 15-46, col. 4, line 8-67, col. 5, line 4-15). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to be motivated to implement selecting an input if there is no skew, selecting an input if there is a late skew and selecting an input if there is a early skew as taught by Henderson with the teachings of Lee for the purpose of further managing/monitor incoming data with respect to clock phase as to provide coherent clocks.

Regarding claim 9, Henderson further discloses, data input, wherein the clock signal of the third input is at least one clock cycle later than the data for the first input (Fig. 3).

Application/Control Number: 09/988,896

Art Unit: 2668

Allowable Subject Matter

- 1. Claims 1-6 and 13-19 are allowed over prior art.
- 2. The following is an examiner's statement of reasons for allowance: Applicant has amended claim 1 to corrected previous 112 rejection, and Applicant has canceled previously rejected claim 12.
- 3. Claims 8, 10 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Although the combined prior art teaches an architecture that includes multiple latches coupled to a multiplexer and encryption means that performs communicating data between transmitter and receiver, de-skewing and skewing communication channels which are coupled to delay stacks, de-skewing method as associated in a SONET environment wherein the architecture includes a framer, de-skewing circuits that utilize phase detectors, and the skewing and delays are monitored, framer associated in a SONET environment and data arriving on a data bus that is associated with a de-skewing circuitry that consist plurality of latches connected via a data bus whereby delay and clock data is monitored, compared, adjusted, selected and transmitted, they fail to teach or suggest with respect to claim 1, if a late skew is determined, correcting late skew by selecting a second input for receiving plurality of data-bits wherein the bits at the second input are at least one clock cycle earlier than the data-bits for the first input, and if an early skew is determined, correcting early skew by selecting a third input for receiving the plurality of data-bits such that the data-bits at the third input are at least one clock cycle later than the data-bits at the first input, and with respect to claim 13, multiplexer selecting a first data input signal if there exist a late skew at the data bus, or selecting the second data input signal if

Application/Control Number: 09/988,896 Page 5

Art Unit: 2668

there is no data skew, or selecting a third data input if an early skew exist, with respect to claim 9, data at second input is one clock cycle earlier than data for first input, with respect to claim 10, data at second input is one clock cycle later than data on the data bus, with respect to claim 11, data skew has a maximum skew of +/-1 clock cycle.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prenell P. Jones whose telephone number is 571-272-3180. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prenell P. Jones

January 26, 2006ⁱ

CHI PHAM

PERWISORY PATENT EXAMIN'